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A New Species of the Genus *Clubiona* (Araneae: Clubionidae) from Shikoku, Western Japan

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林　俊夫[1)]: 四国産フクログモ属（クモ目: フクログモ科）の１新種

Abstract A new *Clubiona* spider collected from Shikoku, is described under the name of *Clubiona bandoi* sp. nov. This species resembles *C. kasanensis* PAIK from Korea in the shape of male palps, and seems to belong to the *corticalis*-group.

From Japan, following five species have been recorded as the members of the *corticalis*-group of the genus *Clubiona*: *C. kasanensis* PAIK, 1990, *C. kurosawai* ONO, 1986, *C. yaginumai* HAYASHI, 1989, *C. cirrosa* ONO, 1989, and *C. ryukyuensis* ONO, 1989. Of these, *Clubiona kasanensis*, which was first described by PAIK in 1990 from Korea, was recorded from Japan for the first time by ONO (1992) based on a male collected from Tokushima Prefecture, Shikoku, Japan. ONO (1994) remarked that a difference was recognized between the Japanese specimen of "*C. kasanensis*" and the original illustration by PAIK (1990) in the shape of the retrolateral apophysis of male palpal tibia. However, he tentatively regarded the Japanese spider within the limits of variation.

Recently, I found a species whose males correspond very well with the male from Tokushima Prefecture described by ONO (1992) under the name of *C. kasanensis* among materials collected from some localities in Shikoku by Dr. Nobuo TSURUSAKI. However, it was found that the females of the present species conspicuously differ from those of *C. kasanensis* in the original description by PAIK (1990). Furthermore, close examination also revealed a constant gap in the male palps between *C. kasanensis* from Korea and the present materials from Shikoku including a male described by ONO (1992).

Thus I consider the present spider from Shikoku as an independent species and will describe it as new to science.

The holotype and allotype recorded in this paper are deposited in the collection of the Department of Zoology, National Science Museum (Nat. Hist.), Tokyo. The abbreviations used herein are the same as those explained in my previous paper (HAYASHI, 1986, p. 32).

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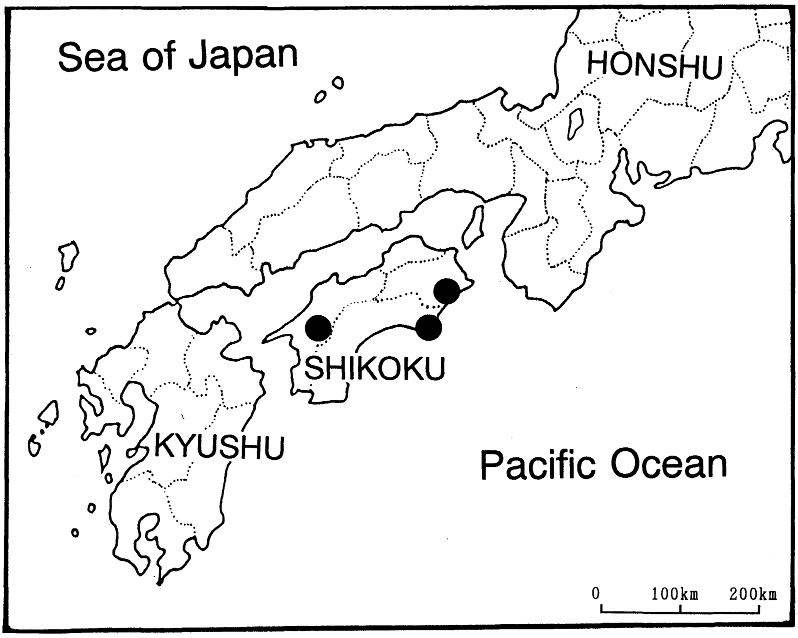


Fig. 1. Distribution of *Clubiona bandoi* sp. nov.

Clubiona bandoi sp. nov.

(Figs. 2–7)

Clubiona kasanensis: ONO, 1992, p. 153, figs. 1–3 (♂).

Diagnosis. This new species resembles *Clubiona kasanensis* PAIK, 1990 from Korea, but can be distinguished from the latter by having an epigynal plate whose hollow is not rounded but rectangular in female, and by having a palpal tibia distally with a hook-like apophysis curved upward in male. *Clubiona bandoi* also resembles *C. bonicula* ONO, 1994 (♀ unknown), from Taiwan, but is distinguished from it by the shape of the retrolateral apophysis of male palpal tibia.

Description. Measurements of the male holotype and the female allotype (in mm; ♂/♀). Body length 4.4/5.3. Carapace length 2.1/2.2, width 1.5/1.7. Abdomen length 2.3/3.1, width 1.5/2.1.

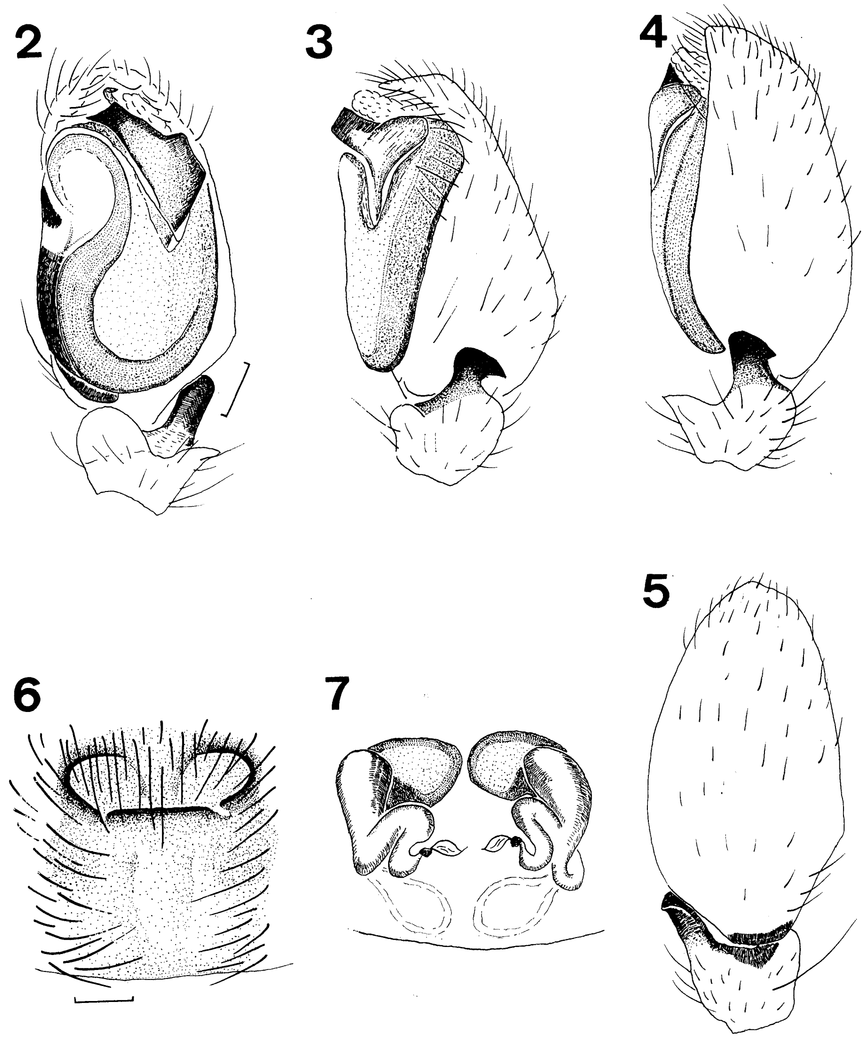
Table 1. Measurements of leg segments of *Clubiona bandoi* sp. nov. (in mm; ♂/♀).

Leg	Femur	Patella	Tibia	Metatarsus	Tarsus	Total
I	1.34/1.46	0.56/0.61	1.22/1.20	0.83/0.85	0.44/0.46	4.39/4.58
II	1.37/1.46	0.59/0.73	1.22/1.39	0.78/0.90	0.37/0.46	4.43/4.94
III	1.22/1.34	0.54/0.54	0.88/0.98	1.10/1.10	0.39/0.49	4.13/4.45
IV	1.83/2.00	0.66/0.61	1.37/1.59	1.59/1.78	0.39/0.51	5.84/6.49

Eye diameter and interdistance: AME 0.10/0.10, ALE 0.10/0.12, PME 0.11/0.12, PLE 0.11/0.12; AME–AME 0.05/0.07, AME–ALE 0.02/0.04 PME–PME 0.16/0.19, PME–PLE 0.11/0.15, ALE–PLE 0.10/0.09. MOA anterior width 0.25/0.27, posterior width 0.38/0.42, length 0.30/0.30. Clypeus height 0.05/0.06.

Ventral spines on legs I and II (♂ and ♀): tibiae I and II 2–2–2–0, metatarsi I and II 2–0–0.

Male palp (Figs. 2–5): embolus short and slender with a transparent conductor; tibia of male palp with two apophyses: a small ventral apophysis and a retrolateral apophysis pointed dorsally (Figs. 3–4).



Figs. 2–7. *Clubiona bandoi* sp. nov.——2–5, Left palp of male holotype: 2, ventral view; 3, lateral view; 4, dorso-lateral view; 5, dorsal view. 6–7, Female allotype: 6, epigynum; 7, internal genitalia, dorsal view. Scales: 0.125 mm.

Female genitalia (Fig. 7): copulatory openings clear, ski-goggle-shaped hollow in the epigynal plate, spermathecae divided into two parts, anterior part large and brown, posterior part small and transparent.

Color: cephalothorax, chelicerae, maxillae and labium light brown. Sternum grayish yellow with brown margin. Femora and patellae of legs and palps grayish yellow. Tibiae, metatarsi and tarsi of legs brown. Spinnerets grayish yellow. Dorsum and venter of abdomen grayish yellow without markings.

Type series. Holotype: ♂, 1–V–1994. Namakusadani, Oda-Miyama, Oda-cho, Kamiukena-gun, Ehime Pref., 1,220 m alt., in the forest of Japanese beech (*Fagus crenata* Blume), N. Tsurusaki leg. Allotype: ♀, Same data as the holotype.

Other specimens examined. All the specimens were collected by N. Tsurusaki. 1♀, 2–XI–1993, Hotsumisakiji, Muroto-misaki, Muroto City, Kochi Pref., 140 m alt., on the leaves of the evergreens; 1♂, 2–V–1994, Masagoya, Oda-miyama, Oda-cho, Kamiukena-gun, Ehime Pref., 790 m alt.; 1♀, 5–XI–1993, Oda-Miyama, Oda-cho, Kamiukena-gun, Ehime Pref., 880 m alt.; 1♀, Mt. Ohkawamine, Mikawa-mura, Kamiukena-gun, Ehime Pref., 1,520 m alt., in the dwarf bamboo bush; 1♂, 1♀, 5–XI–1993, Mt. Ohkawamine, Mikawa-mura, Kamiukena-gun, Ehime Pref., 1,250 m alt., in the forest of Japanese beech; 1♀, 5–XI–1993, Mt. Ohkawamine, Mikawa-mura, Kamiukena-gun, Ehime Pref., 1,400 m alt., in the forest of Japanese beech.

Distribution. Shikoku, Japan: Tokushima [Is. Kojima, Kaifu-cho: Ono (1992)], Kochi and Ehime Prefectures.

Remarks. This new species seems to be commonly found from Is. Shikoku, Japan. It has been found from various habitats, from evergreen broad-leaf forests near the seashore to the mountainous meadow situated around the peak with more than 1,500 m in altitude.

Etymology. The specific name is after Mr. Haruo Bando who collected this new species for the first time from Japan.

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摘　　要

徳島県から *Clubiona kasanensis* Paik として記録されていたバンドウフクログモを，愛媛県および高知県産の雌雄の標本に基いて研究した結果，新種と認め，*Clubiona bandoi* sp. nov. として，記載した．本種は *corticalis* 種群に属し，韓国産の *C. kasanensis* Paik や台湾産の *C. bonicula* Ono に似ている．

References

Hayashi, T., 1986. Descriptions of two new species of the genus *Clubiona* (Araneae: Clubionidae) from Japan. *Proc. Jpn. Soc. syst. Zool.*, (34): 32–38.

HAYASHI, T., 1989. Four new species of the genus *Clubiona* (Araneae: Clubionidae) from Japan. *In* NISHIKAWA Y., & H. ONO (eds.): *Arachnological Papers Presented to Takeo Yaginuma on the Occasion of His Retirement*, pp. 103–110. Osaka Arachnologists' Group, Osaka.

ONO, H., 1986. A new spider of the group of *Clubiona corticalis* (Araneae, Clubionidae) found in Japan. *In* UÉNO, S.-I. (ed.): *Entomological Papers Presented to Yoshihiko Kurosawa on the Occasion of His Retirement*, pp. 19–25. Coleopterists' Association of Japan, Tokyo.

——— 1989. New species of the genus *Clubiona* (Araneae, Clubionidae) from Iriomotejima Island, the Ryukyus. *Bull. natn. Sci. Mus., Tokyo*, (A), **15**: 155–166.

——— 1992. *Clubiona kasanensis* PAIK (Araneae: Clubionidae) new to the Japanese fauna. *Acta arachnol.*, **41**: 153–155.

——— 1994. Spiders of the genus *Clubiona* from Taiwan (Araneae: Clubionidae). *Ibid.*, **43**: 71–85.

PAIK, K. Y., 1990. Korean spiders of the genus *Clubiona* (Araneae: Clubionidae) I. Description of eight new and five unrecorded species from Korea. *Korean Arachnol.*, **5**: 85–129.

Arachnology and the Internet

The Internet has become a very useful place to find information on various subjects. At the moment however you can hardly find anything about spiders and their relatives.

In cooperation with Mark Stowe and Al Cady from the American Arachnological Society, a new mailing list is started named 'arachnology.' In the near future we envision that the discussion list's primary focus will be the creation of arachnological databases on the Internet. Discussion on the list will however cover many other topics that are of interest to arachnologists and their societies.

Everyone with E-mail access can join the list by sending a message to:

Majordomo@ufsia.ac.be

with in the body of the message:

subscribe arachnology
end

You then receive a message with a short description of the list. After you have subscribed, you can post a message to the entire group by sending it to:

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More information on this mailing list can be obtained from the list owner:
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